

Title (en)
AMMUNITION CARTRIDGE CONTAINING A POLYMER COMPOSITION

Title (de)
POLYMERZUSAMMENSETZUNG ENTHALTENDE MUNITIONSKARTUSCHE

Title (fr)
CARTOUCHE DE MUNITION CONTENANT UNE COMPOSITION POLYMÈRE

Publication
EP 4127596 A1 20230208 (EN)

Application
EP 21779448 A 20210316

Priority
• US 2021022553 W 20210316
• US 202063001827 P 20200330

Abstract (en)
[origin: US2021301134A1] An ammunition cartridge comprising a casing body that defines a hollow interior configured to receive a projectile is provided. The casing body contains a polymer composition that includes a polyarylene sulfide and an impact modifier. The impact modifier includes an epoxy-functionalized polymer. Further, the polymer composition exhibits a notched Charpy impact strength of about 6 kJ/m² or more as determined at a temperature of 23° C. in accordance with ISO Test No. 179-1:2010.

IPC 8 full level
F42B 7/02 (2006.01); **F42B 7/08** (2006.01); **F42B 8/02** (2006.01)

CPC (source: EP US)
C08L 63/00 (2013.01 - EP); **C08L 81/02** (2013.01 - EP); **C08L 81/04** (2013.01 - US); **F42B 5/30** (2013.01 - EP US); **F42B 5/307** (2013.01 - EP); **F42B 5/313** (2013.01 - US)

C-Set (source: EP)
C08L 81/02 + C08L 63/00

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
US 11434368 B2 20220906; US 2021301134 A1 20210930; CN 115516273 A 20221223; EP 4127596 A1 20230208; EP 4127596 A4 20240410; JP 2023519659 A 20230512; WO 2021202099 A1 20211007

DOCDB simple family (application)
US 202117191843 A 20210304; CN 202180023284 A 20210316; EP 21779448 A 20210316; JP 2022552306 A 20210316; US 2021022553 W 20210316